



SPRITE



5.1 Sprites Revisited

5.2 Automatic

5.3 Manual

5.4 Further Configuration



- Images combined into one file to reduce HTTP requests
- Utilize `background-position` to shift the image and only show the needed portion
- Not universally loved

5.1 Sprites Revisited





youtube.com

Assembly Tip

Make sure you're using the appropriate solution: sprites, icon fonts, and embedded images all have their place





**images/icons/
cancel.png**
166 x 166



**images/icons/
next.png**
113 x 185



**images/icons/
warning.png**
185 x 169

Using `@import` to generate a sprite:

`application.sass`

```
@import "compass"  
@import "icons/*.png"
```



grabs all .png files
in the icons folder

5.2 Automatic





generated by compass



images/icons-s70d570c2ba.png

application.sass

```
@import "compass"  
@import "icons/*.png"  
+all-icons-sprites
```



the name of the folder
your images are in

application.css

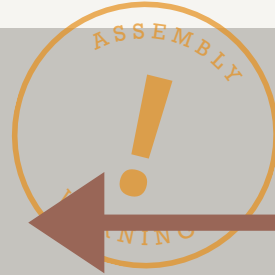
```
.icons-sprite, .icons-cancel,  
.icons-next, .icons-warning {  
  background: url('/images/icons-  
s451834c886.png') no-repeat;  
}  
.icons-cancel {  
  background-position: 0 -169px;  
}  
.icons-next {  
  background-position: 0 -335px;  
}  
.icons-warning {  
  background-position: 0 0;  
}
```



5.2 Automatic



```
.icons-sprite, .icons-cancel,  
.icons-next, .icons-warning {  
  background: url('/images/icons-  
s451834c886.png') no-repeat;  
}  
.icons-cancel {  
  background-position: 0 -169px;  
}  
.icons-next {  
  background-position: 0 -335px;  
}  
.icons-warning {  
  background-position: 0 0;  
}
```



lots of files =
lots of selectors

manual width/height
setting needed

5.2 Automatic

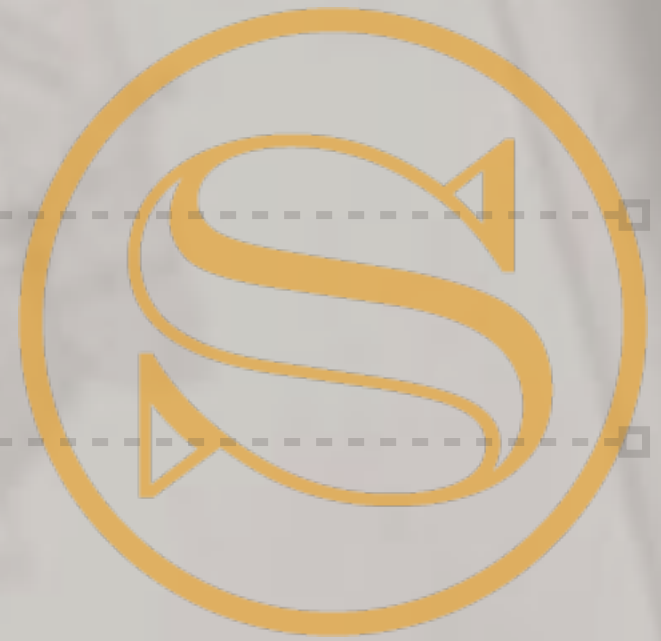


5.1 Sprites Revisited

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5.4 Further Configuration



Use `sprite-map` instead of `@import` to generate the sprite image:

`application.sass`

```
@import "compass"  
$icons: sprite-map("icons/*.png")
```

doesn't create the
sprite image on its own



We'll use the `i` element (rather than `chain`), similar to Bootstrap:

application.sass

```
@import "compass"
$icons: sprite-map("icons/*.png")

i
  background: $icons
  display: inline-block
```

application.css

```
i {
  background: url('/images/icons-
s23621d5361.png');
  display: inline-block;
}
```



5.3 Manual





images/icons-s23621d5361.png

`sprite-position` automatically finds the coordinates for us:

application.sass

```
@import "compass"
$icons: sprite-map("icons/*.png")

i
  background: $icons
  display: inline-block
.icn-cancel
  background-position: sprite-
    position($icons, cancel)
```

sprite map

file name, sans extension

application.css

```
i {
  background: url('/images/icons-
s23621d5361.png');
  display: inline-block;
}
.icn-cancel {
  background-position: 0 -169px;
}
```

5.3 Manual



`sprite-position` automatically finds the coordinates for us:

`application.sass`

```
@import "compass"
$icons: sprite-map("icons/*.png")

i
  background: $icons
  display: inline-block
.icn-cancel
  background-position: sprite-
    position($icons, cancel)
    +sprite-dimensions($icons, cancel)
```

`application.css`

```
i {
  background: url('/images/icons-
s23621d5361.png');
  display: inline-block;
}
.icn-cancel {
  background-position: 0 -169px;
  height: 166px;
  width: 166px;
}
```

5.3 Manual





```
<i class="icn-cancel"></i>
```



application.sass

```
...  
.icn-cancel  
  background-position: sprite-  
position($icons, cancel)  
  +sprite-dimensions($icons, cancel)  
  
.icn-next  
  background-position: sprite-  
position($icons, next)  
  +sprite-dimensions($icons, next)  
  
.icn-warning  
  background-position: sprite-  
position($icons, warning)  
  +sprite-dimensions($icons, warning)
```



application.css

```
.icn-cancel {  
  background-position: 0 -169px;  
  height: 166px;  
  width: 166px;  
}  
.icn-next {  
  background-position: 0 -335px;  
  height: 185px;  
  width: 113px;  
}  
.icn-warning {  
  background-position: 0 0;  
  height: 169px;  
  width: 185px;  
}
```



5.3 Manual



application.sass

```
...  
.icn-cancel  
  background-position: sprite-  
position($icons, cancel)  
  +sprite-dimensions($icons, cancel)  
  
.icn-next  
  background-position: sprite-  
position($icons, next)  
  +sprite-dimensions($icons, next)  
  
.icn-warning  
  background-position: sprite-  
position($icons, warning)  
  +sprite-dimensions($icons, warning)
```



application.css

```
.icn-cancel {  
  background-position: 0 -169px;  
  height: 166px;  
  width: 166px;  
}  
.icn-next {  
  background-position: 0 -335px;  
  height: 185px;  
  width: 113px;  
}  
.icn-warning {  
  background-position: 0 0;  
  height: 169px;  
  width: 185px;  
}
```



5.3 Manual



application.sass

```
...  
$icon-names: cancel next warning  
  
@each $i in $icon-names  
  .icn-#{$i}  
    background-position: sprite-  
position($icons, $i)  
    +sprite-dimensions($icons, $i)
```



forced to manually
update the list for new files

application.css

```
.icn-cancel {  
  background-position: 0 -169px;  
  height: 166px;  
  width: 166px;  
}  
.icn-next {  
  background-position: 0 -335px;  
  height: 185px;  
  width: 113px;  
}  
.icn-warning {  
  background-position: 0 0;  
  height: 169px;  
  width: 185px;  
}
```



5.3 Manual



application.sass

```
...  
  
@each $i in sprite_names($icons)  
  .icn-#{$i}  
    background-position: sprite-  
position($icons, $i)  
    +sprite-dimensions($icons, $i)
```



application.css

```
.icn-cancel {  
  background-position: 0 -169px;  
  height: 166px;  
  width: 166px;  
}  
.icn-next {  
  background-position: 0 -335px;  
  height: 185px;  
  width: 113px;  
}  
.icn-warning {  
  background-position: 0 0;  
  height: 169px;  
  width: 185px;  
}
```

5.3 Manual



```
@import "compass"
$icons: sprite-map("icons/*.png")

i
  background: $icons
  display: inline-block

@each $i in sprite_names($icons)
  .icn-#{$i}
    background-position: sprite-position($icons, $i)
    +sprite-dimensions($icons, $i)
```



Additional Sprite Options

- The generated sprite can be altered with a number of configuration variables, like spacing:
<http://compass-style.org/help/tutorials/spriting/customization-options/>
- Non-vertical layouts can be set:
<http://compass-style.org/help/tutorials/spriting/sprite-layouts/>

5.4 Further Configuration

